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(71) Applicant (for all designated States except US): **JOHNSON MATTHEY PUBLIC LIMITED COMPANY** [GB/GB]; 2-4 Cockspur Street, Trafalgar Square, London SW1Y 5BQ (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **POLLINGTON, Stephen, David** [GB/GB]; 167 Stridingedge, Blackfell, Washington, Tyne and Wear NE37 1HN (GB). **RAJARAM, Raj, Rao** [MU/GB]; 34 Buckland Avenue, Slough SL3 7PH (GB). **WALKER, Andrew, Peter** [GB/GB]; 57 Bramley Avenue, Melbourn, Royston SG8 6HG (GB).

(74) Agent: **NUNN, Andrew, Dominic**; Johnson Matthey Technology Centre, Blounts Court, Sonning Common, Reading RG4 9NH (GB).

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(54) Title: METHOD OF DECOMPOSING NITROGEN DIOXIDE

(57) Abstract: A method of decomposing nitrogen dioxide to nitrogen monoxide in an exhaust gas of a lean-burn internal combustion engine, such as a diesel engine, comprises adjusting the C 1 hydrocarbon : nitrogen oxides (C 1 HC:NO_x) ratio of the exhaust gas to from 0.1 to 2 and contacting this exhaust gas mixture with a particulate acidic refractory oxide selected from the group consisting of zeolites, tungsten-doped titania, silica-titania, zirconia-titania, gamma-alumina, amorphous silica-alumina and mixtures of any two or more thereof and passing the effluent gas to atmosphere.

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